

PN - JP52057313 A 19770511
 PD - 1977-05-11
 PR - JP19750133899 19751107
 OPD - 1975-11-07
 TI - MANUFACTURE OF MICELLAR INSULINE EMULSION
 PREPARATIONS
 IN - ABE YUTAKA; SHIGETA YUKIO; SHICHIRI MOTOAKI; NOTANI
 NOBUAKI
 PA - YAMANOUCI PHARMA CO LTD
 IC - A61K9/10

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TI - Oral insulin emulsion prepn. - by mixing animal insulin or its metal
 complex with bile acid salts and fatty acid monoglycerides aq. soln.
 PR - JP19750133899 19751107
 PN - JP52057313 A 19770511 DW197725 000pp
 PA - (YAMA) YAMANOUCI PHARM CO LTD
 IC - A61K9/10
 AB - J52057313 Insulin emulsion for oral use is prepd. by adding insulin,
 pharmacologically inactive alkali metal salt of bile acid and water to
 a fused mixt. of higher fatty acid and higher fatty acid
 monoglyceride and shaking the mixt.
 - The insulin isolated from cattle, swine or whale, is used or its metal
 complexes (e.g. Zn complex) or protamine Zn insulin or globin
 insulin. The higher fatty acids are palmitic acid, stearic acid, oleic
 acid, linoleic acid, etc. The bile acid is cholic acid, deoxycholic acid,
 taurocholic acid, glycocholic acid, etc. Water of a buffer soln. or
 dilute HCl is used. The ratio of each component in 1 l. of the soln.
 is : insulin 5,000-100,000 unit (U), higher fatty acid 20-400 mmole,
 the monoglyceride 10-200 mmole, alkali metal salt of bile acid
 50-300 ml. It is possible to add a stabiliser or preservative.

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 IN - ABE YUTAKA; others: 03

- PA - YAMANOUCHI PHARMACEUT CO LTD
- TI - MANUFACTURE OF MICELLAR INSULINE EMULSION
PREPARATIONS
- AB - PURPOSE: Title preparation for oral administration which exerts no
side effects is obtained by using a specific medium and dispersing
agent.
- I - A61K9/10